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Fiber Fabry-Perot Sensors for Detection of Partial Discharges in Power Transformers

B Yu, DW Kim, J Deng, H Xiao, A Wang - Applied Optics, 2003 - aoot.osa.org

... 1. Schematic of a **fiber Fabry-Perot** acoustic sensor system: SMF ... thermally bonding a **fiber**, a **ferrule**, a silica tube, and a silica **diaphragm** together to ...Cited by 3 - [Web Search](#) - [ao.osa.org](#) - [adsabs.harvard.edu](#) - [ncbi.nlm.nih.gov](#) - [all 7 versions](#) »

Blast-pressure measurement with a high-bandwidth fibre optic pressure sensor

WN MacPherson, MJ Gander, JS Barton, JDC Jones, CL ... - Measurement Science and Technology, 2000 - iop.org

... and its attachment to the **ferrule** to form ... fibre ultrasonic hydrophone using a**Fabry-Perot** polymer film ... M 1992 Flat and Corrugated **Diaphragm** Design Handbook ...Cited by 4 - [Web Search](#) - [ingentaconnect.com](#) - [adsabs.harvard.edu](#) - [csa.com](#) - [all 6 versions](#) »

A Novel Temperature-Insensitive Optical Fiber Pressure Sensor for Harsh Environments

J Xu, G Pickrell, X Wang, W Peng, K Cooper, A Wang - IEEE Photonics Technology Letters, 2005 - ieeexplore.ieee.org

... only the **diaphragm** thickness or the **ferrule** pit diameter ... 1. The length of the**Fabry-Pérot** (FP) cavity (air gap ... decrease with deflection of the **diaphragm** as a ...Cited by 1 - [Web Search](#)

Miniature fiber-optic multicavity Fabry-Perot interferometric biosensor

Y Zhang - 2005 - scholar.lib.vt.edu

... 51 Chapter 3 Microgap multicavity **Fabry-Perot** sensor ... 90 4.4.1 Self-assembly on **fiber**end ... Figure 2.2 Structure of miniature FFPI sensors. (a) **Diaphragm**-based FFPI ...Cited by 1 - [View as HTML](#) - [Web Search](#) - [ol.osa.org](#) - [scholar.lib.vt.edu](#) - [ncbi.nlm.nih.gov](#)

Fiber Optic Pressure Sensor Fabrication Using MEMS Technology

X Chen - 2003 - scholar.lib.vt.edu

... form extrinsic **Fabry-Perot** (FP) interferometric cavities. Sol-gel is used as an intermediate-layer for both **fiber-ferrule** bonding and **ferrule-diaphragm** bonding ...Cached - [Web Search](#) - [scholar.lib.vt.edu](#)

Fiber Optic Microphone

YC Cho, T George - 1999, 1999 - csa.com

... technique employed was **fiber optic Fabry-Perot** interferometry. ... terminated in a miniature **ferrule** with a thin, silicon-microfabricated **diaphragm** mounted on it ...[Web Search](#)

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HTFO Pressure - pdf.aiaa.org

... Metal iaphragm Fig.2 Sensor head. Extrinsic **Fabry-Perot** interferometeris ...fiberandreflective **diaphragm**.Li:housing length,Ls: flange length,Lz:**ferrule** length. ...[Web Search](#) - [pdf.aiaa.org](#)

Study On a Novel Optical Fiber Pressure Sensor

G Wang, V Fu, ME Welland, HP Hodson, J Ma - Electronic Packaging Technology Proceedings, 2003. ICEPT2003 ..., 2003 - ieeexplore.ieee.org

... end face and inner **diaphragm** face, the **Fabry-Perot** spacing, is ... end face is closethe hole of the **diaphragm**. ... mode **fiber** with a connector **ferrule** inserted into ...[Web Search](#) - [ieeexplore.ieee.org](#)

Development of Novel Optical Fiber Interferometric Sensors with High Sensitivity for Acoustic ...

J Deng - 2004 - scholar.lib.vt.edu

... intensity in a **Fabry-Perot** interferometer16 ... b) stage for



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Extrinsic Fabry-Perot interferometer fiber-optic microphone

N Furstenau, H Horack, W Schmidt - IEEE Transactions on Instrumentation and Measurement, 1998 - [ieeexplore.ieee.org](#)

... A loudspeaker **membrane** of 4 cm diameter is ... mirrors via tilting of the **ferrule** [tilt angle ... FURSTENAU et al.: EXTRINSIC FABRY-PEROT INTERFEROMETER FIBER-OPTIC ...

Cited by 7 - [Web Search](#) - [ieeexplore.ieee.org](#)

Extrinsic Fabry-Perot interferometer vibration and acoustic sensor systems for airport ground ...

N Fuerstenau, M Schmidt, H Horack, W Goetze, W ... - IEE Proceedings Optoelectronics, 1997 - [ieeexplore.ieee.org](#)

... The theoretical background of the extrinsic **Fabry-Perot** interferometer (EFPI) sensors is derived, and results of laboratory experiments as well as initial ...

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Continuously tunable photopumped 1.3- μ m fiber Fabry-Perot surface-emitting lasers

K Hsu, CM Miller, D Babic, D Houng, A Taylor - IEEE Photon. Technol. Lett, 1998 - [ieeexplore.ieee.org](#)

... bonded onto metal **ferrule** submounts to ... D. Marcuse, "Ultrahigh finesse **fiber Fabry-Perot** interferometers ... a micromachined deformable-**membrane** mirror," Appl ...

Cited by 4 - [Web Search](#) - [ieeexplore.ieee.org](#)

Micromechanical fiber-optic attenuator with 3 s response

JE Ford, JA Walker, DS Greywall, KW Goossen - J. Lightwave Technol, 1998 - [ieeexplore.ieee.org](#)

... treating the modulator as a **Fabry-Perot** etalon with ... the original position (from the **membrane** tension force ... 7. (a) Dual **fiber ferrule** and assembly of **ferrule** ...

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Miniature fiber-optic multicavity Fabry-Perot interferometric biosensor

Y Zhang - 2005 - [scholar.lib.vt.edu](#)

... Keywords: **Fabry-Perot** interferometry, **Fiber** optic biosensor, Polyelectrolyte self-assembly, Temperature compensation ©Copyright 2005, Yan Zhang Page 2. ...

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Extrinsic Fabry-Perot Interferometer Fiber

N Furstenau, H Horack, W Schmidt - [ieeexplore.ieee.org](#)

... L=**Fabry-Perot** cavity length, PD= photodiode ... is based on an extrinsic **Fabry-Perot** interferometer (EFPI-A ... coupled to the reflector **fiber ferrule** for transferring ...

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WAVELENGTH TUNING IN PHOTO-PUMPED 1.3 μ m FIBER FABRY-PEROT SURFACE EMITTING LASERS

K Hsu, CM Miller, D Babic, D Houng, A Taylor - [ieeexplore.ieee.org](#)

... and a suspended deformable- **membrane** mirror, respectively ... configuration forms the **fiber Fabry-Perot** surface-emitting ... are bonded onto metal **ferrule** submounts ...

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Fiber Optic Microphone

YC Cho, T George - 1999, 1999 - [csa.com](#)

... technique employed was **fiber** optic **Fabry-Perot** interferometry. ... **fiber** terminated in a miniature **ferrule** with a ... micron thick silicon nitride **membrane** whose inner ...

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Acoustic Measurements Using a Fiber Optic Sensor System.

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L1	739275	interfer\$	US-PGPUB; USPAT	ADJ	ON	2006/01/31 10:52
L2	575013	fiber or fibre	US-PGPUB; USPAT	ADJ	ON	2006/01/31 10:52
L3	19341	ferrule	US-PGPUB; USPAT	ADJ	ON	2006/01/31 10:47
L4	312059	membrane	US-PGPUB; USPAT	ADJ	ON	2006/01/31 10:47
L5	9231	Fabry perot or fabry-perot	US-PGPUB; USPAT	ADJ	ON	2006/01/31 10:52
L6	18	1 and 2 and 3 and 4 and 5	US-PGPUB; USPAT	ADJ	ON	2006/01/31 10:49
L7	14	XU-JUNCHENG or WANG-ANBO	US-PGPUB; USPAT	ADJ	ON	2006/01/31 10:50
L8	221872	interfer\$	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/31 10:52
L9	770842	fiber or fibre	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/31 10:52
L10	15638	ferrule	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/31 10:52
L11	203647	membrane	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/31 10:52
L12	2886	Fabry perot or fabry-perot	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/31 10:53
L13	0	8 and 9 and 10 and 11 and 12	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/31 10:53

L20	2	15 and 16 and 17 and 18 and 19	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/31 08:38
L21	27	16 and 17 and 18	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/31 08:38

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L3	19341	ferrule	US-PGPUB; USPAT	ADJ	ON	2006/01/31 07:57
L4	9231	fabry perot or fabry-perot	US-PGPUB; USPAT	ADJ	ON	2006/01/31 08:37
L5	113059	diaphragm	US-PGPUB; USPAT	ADJ	ON	2006/01/31 08:37
L6	23	1 and 2 and 3 and 4 and 5	US-PGPUB; USPAT	ADJ	ON	2006/01/31 08:12
L7	365	2 and 3 and 4	US-PGPUB; USPAT	ADJ	ON	2006/01/31 08:12
L8	65	2 same 3 same 4	US-PGPUB; USPAT	ADJ	ON	2006/01/31 08:19
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L12	116	7 not (8 or 9 or 10 or 11)	US-PGPUB; USPAT	ADJ	ON	2006/01/31 08:36
L13	27	2 and 3 and 4 and 5	US-PGPUB; USPAT	ADJ	ON	2006/01/31 08:36
L14	4	13 not 6	US-PGPUB; USPAT	ADJ	ON	2006/01/31 08:37
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